

CHRISTINE DAY

Los Angeles, CA | (818) 323-1234 | cday@calpoly.edu | linkedin.com/in/christineday

EDUCATION

California Polytechnic State University, San Luis Obispo

Bachelor of Science: Physics

June 20xx

GPA: 3.4 / 4.000

RELEVANT COURSEWORK

Lasers and Applications, Advanced Optics Lab, Quantum Lab (I, II), Computational Physics

SKILLS

- Extensive experience in large data set analysis and physics laboratory work
- Proficiency in Python and SQL
- Developing proficiency in MATLAB, IDL, LabVIEW, and HFSS (ANSYS High Frequency Structure Simulator)
- Familiar with Linux, Unix, and Windows operating systems
- Fluent in Spanish and conversational in Mandarin

RESEARCH & PROFESSIONAL EXPERIENCE

Cold Atom Group Student Researcher

April 20xx – Present

Student-Faculty Research: Cal Poly San Luis Obispo

- Research development of cold atom traps for quantum computing using neutral Rb87 atoms
- Develop injection-locked laser and beam projection into Magneto-Optical Trap (MOT) via pinhole diffraction

Tropospheric Composition Group Intern

June 20xx – September 20xx

Jet Propulsion Laboratory: Pasadena, CA

- Performed analysis and visualization of atmospheric data from TES (Tropospheric Emission Spectrometer) spacecraft

Optical Communications Group and Radiation Safety Group Intern

June 20xx – September 20xx

Jet Propulsion Laboratory: Pasadena, CA

- Developed and evaluated raspberry-pi based ADS-B (Automatic Dependent Surveillance Broadcast) receiver
- Revised aircraft detection program and developed custom scripts for remote data collection and analysis
- Compiled and digitized decommissioned radioactive isotopes into NRC compliant database

Neutrino-Radio Detection Group Student Researcher

September 20xx – May 20xx

Student-Faculty Research: Cal Poly San Luis Obispo

- ANITA (ANTarctic Impulsive Transient Antenna): Researched effects of added dielectric lens to radiation pattern directivity, side lobe reduction, and noise figure increase relative to power gain
- Developed Teflon lens geometry on ANITA signal gain both analytically and by creating simulations in HFSS
- EVA (ExaVolt Antenna): Maximized signal transmission and stability by optimizing materials and geometries

LEADERSHIP & INVOLVEMENT

President, Women in Physics

September 20xx – June 20xx

Cal Poly Chapter: San Luis Obispo, CA

Physics Tutor (10-15 hours per week)

September 20xx – June 20xx

Cal Poly Physics Department

AWARDS & HONORS

Educational Opportunity Program Academic Achievement Award

20xx